

Using the Easytherm Smart Boiler Controller



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Referenced to version 4.02P Easytherm firmware and version 4.8.0T of the App

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1. Safety and other Important Notices

The Easytherm boiler controller must be installed by a suitably qualified person in accordance with the latest IEEE Wiring Regulations.

Please ensure that the installer has obtained, read and fully understood the Easytherm Installation and User Manual, prior to starting the installation.

There are no user serviceable parts within the Easytherm and the Easytherm enclosure must not be opened by anyone who has not been appointed and trained by Easytherm to do so.

The Easytherm battery has an expected life of 10 years and can be replaced by a suitably qualified installation company by removing the Easytherm from its backplate and then sliding the battery out of its receptacle in the Easytherm enclosure. It is not necessary to dismantle the enclosure to do this. Batteries must be disposed of at an authorised battery disposal or recycling centre.

As is the case for all boiler controllers, electronic equipment is prone to failure and while steps have been taken to minimise this in the Easytherm, there is a risk that failure of the Easytherm could result in damage (for example, in the case where heating fails to come on during cold weather). Easytherm Ltd. cannot accept liability for consequential damages.

2. Before you start using your Easytherm

Make sure that your chosen Easytherm installation company has completed the following items, prior to handing over the Easytherm to you:-

1. Installation and wiring up of the Easytherm Boiler Controller.
2. Connection of the Easytherm Boiler Controller to your home network.
3. Installing the App on your chosen smartphone, pad or pc.

WHILST YOU ARE WATCHING AND WITH YOUR PARTICIPATION

4. Logging into the Easytherm using at least one of your chosen devices (ideally, an Android Smartphone or iPhone , but a Pad or Laptop with a Chrome Browser will also work)
5. Configuring the basic Easytherm settings, such as a 7 Day programme for Heating and Hot Water.
6. Testing that the Heating and Hot water switch on and off via the Easytherm.
7. Logging Off and Logging On again.
8. Using the Easytherm when you are away from home.
9. Writing your Easytherm App & web access Username and Password in this manual.
10. Answering any questions about the operation of your Easytherm.
11. Tidying up.

3. Introduction to Easytherm

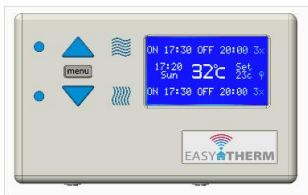
Thank you for choosing the Easytherm boiler controller.

The Easytherm boiler controller represents a fresh approach to domestic boiler control, which we hope will appeal to those who like the simplicity and convenience of using their smartphone, pad or pc to control their central heating and hot water systems.

The Easytherm has 2 channels which are independently controlled to switch your heating and hot water on and off up to 3 times each day. In this way, it is similar to a conventional 2 channel, 7 day boiler programmer, but with the added simplicity of being able to set the on and off times via an intuitive smartphone App or, alternatively, via a browser based web interface. More than one Easytherm may be used together for larger, multi-zone, installations.

Unlike other products, which have focused on web based temperature control, Easytherm provides a very efficient way of controlling the times when your boiler is used to generate heating and hot water. This suits the many UK households who prefer to control room temperatures individually via radiator thermostatic valves. Also, the simplicity of a 1 for 1 replacement of a conventional Boiler Programmer with the Easytherm reduces installation and maintenance costs.

If you are replacing an existing boiler programmer with the Easytherm, the Easytherm will continue to use your existing Thermostat in the same way that the programmer did. Alternatively, you can buy the optional 'add on' Easytherm WiFi Thermostat, which gives full control of room temperature via the web App.



Introduction to Easytherm (Continued)

If you have an existing boiler programmer, it is most likely to be operated via pushbuttons. Whilst the EasyTherm boiler controller has been designed to be operated via devices such as smartphones, tablets and pcs, the Easytherm also has a very intuitive pushbutton interface, allowing access and control without having to use a smartphone, pad or pc. We believe that the Easytherm is unique in offering this 'best of both worlds' approach.

It is likely that most users will want to access the Easytherm via the smartphone App, which has been designed to work on the more recent models of the iPhone and Android Phones and also works well (with some visual limitations) on iPads and Android Pads. There is also web browser based access to the Easytherm, for customers who wish to use other platforms within their home to view and control the Easytherm, such as Smart TVs.

Don't worry, your chosen Easytherm installation company will make the the network connection between the Boiler Controller and your smartphone, tablet or pc and will demonstrate how you use the Easytherm via the smartphone App and via a browser in the home. However, if you want to have a detailed description of how your Easytherm was installed, configured and connected to your home network, you should read the manual entitled "Installing the Easytherm Boiler Controller", which is available from our website at:- **www.easytherm.co.uk**

With the exception of the APPENDICES, the remainder of this manual is split into 3 distinct sections:-

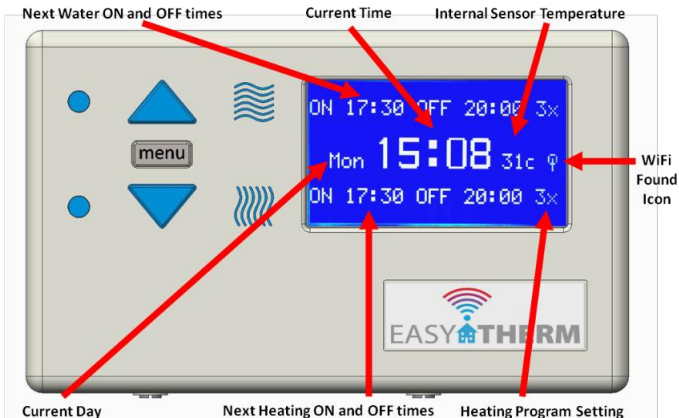
Using the Easytherm Pushbuttons and LCD menus - useful for all customers

Using the Easytherm Smartphone App - useful for all customers

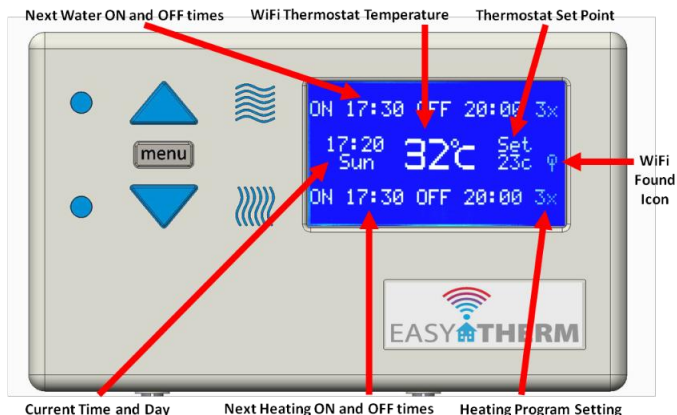
Accessing the Easytherm via a Web Browser - useful if you want to access the Easytherm from within your home via smart a TV or other device which does not support Apps - or if you simply do not want to use an App. Certain configuration items, such as the WiFi settings and Web / App Password can only be changed via web browser access. Please note however that using the Web Browser interface is limited to the home only; you do need the App in order to access and control your Easytherm from outside the home.

4. Using the Easytherm Pushbuttons and LCD Menus - The Status Screen

If you are using an Easytherm without the optional external WiFi Thermostat, the LCD display will look like this.

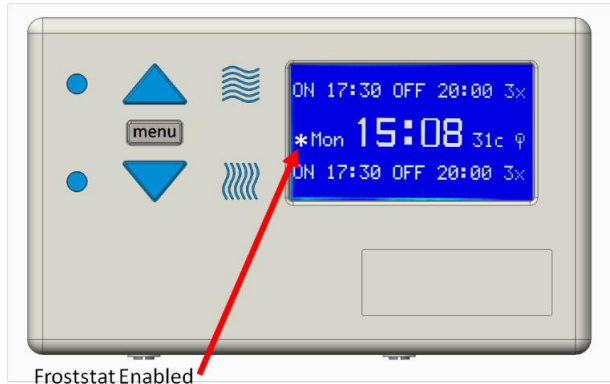


If you are using an Easytherm with the optional external WiFi Thermostat, the LCD display will look like this.



The Froststat

The Easytherm has a Froststat feature to help protect your pipes from freezing during cold weather. The Froststat is usually enabled or disabled during installation, depending on customer requirements. If the Froststat has been enabled, a star will be shown on the LCD Status Screen, in front of the day of the week - as shown below:-



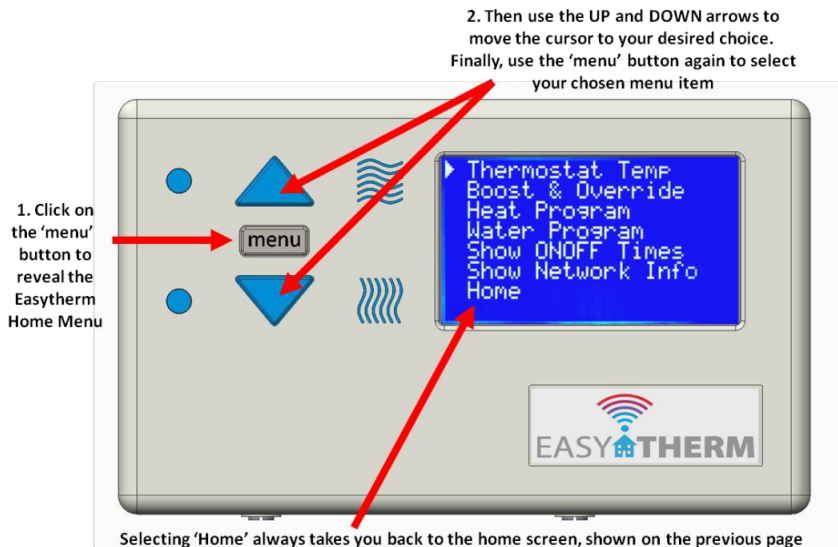
If the Froststat is enabled, the Easytherm will switch the Heating ON when the temperature in your house falls below approximately 5 degrees centigrade. It is important to note the following:-

- Use of the Froststat may increase your heating bills
- The Easytherm must be located where the ambient temperature is representative of the temperature required for the Froststat to prevent freezing.
- The Froststat will work, even if the Heating Program is set to OFF
- During Heating ON periods, it is assumed that the internal Easytherm Froststat is NOT required and the Easytherm will heat your house to the temperature set on your Thermostat, or to the Set Point temperature of the internal Easytherm Thermostat (if the internal Easytherm Thermostat has been enabled).

The Main Menu

Once the MENU button has been pressed, the main Easytherm menu is shown and the UP and DOWN keys can be used to navigate, as shown below.

Please note that the top line (Thermostat Temp) will only be shown if you have the optional WiFi Thermostat fitted and enabled.

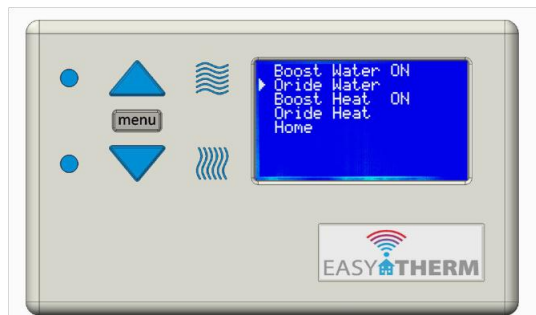


The Boost and Override menu

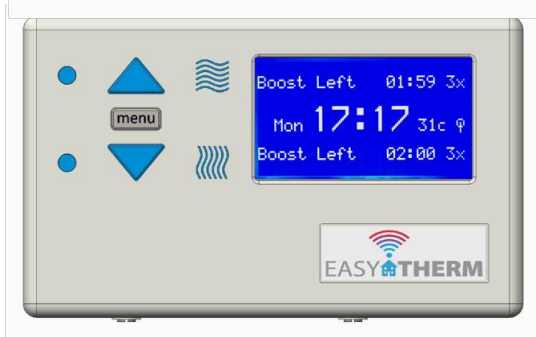
BOOST

BOOST allows you to instantly provide 2 hours of central heating and / or water heating, at the touch of a button. The Easytherm Programme must be set to either 1x, 2x or 3x for the BOOST button to work (for obvious reasons, the ON and OFF programmes do not allow BOOST). If the BOOST is activated while the associated Heating or Hot Water is already on, the Easytherm waits until the scheduled on time has completed and then starts to count down the 2 Hours. Therefore, using BOOST during a scheduled on period has the effect of extending the 'on' period by 2 hours. The BOOST function can be cancelled at any time, by selecting BOOST from the menu, again.

Use the UP and DOWN arrows to navigate to the BOOST that you want and then click on the MENU button to switch ON the BOOST



Then navigate to 'Home' and click on the MENU button to return to the home screen. You should now see the Boost Left hour and minute counters, as shown. Remember, these will not start counting down if you are already in a Heating or Water ON period



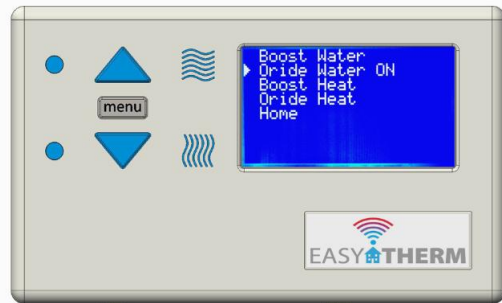
The Boost and Override menu (Continued)

OVERRIDE

- If the Heating or Hot Water is OFF: - when Override is selected, the Heating or Hot Water is turned ON and will remain ON until the next scheduled OFF time, effectively bringing forward and extending the next scheduled ON time.
- If the Heating or Hot Water is ON:- when Override is selected, the Heating or Hot Water is turned OFF, effectively bringing the current cycle to a premature end.

Override is a bit more powerful than the BOOST function, which only lasts for 2 hours - so care needs to be used to ensure that the Heating or Water is not left overridden for longer than is intended.

Use the UP and DOWN arrows to navigate to the OVERRIDE that you want and then click on the MENU button to switch ON the OVERRIDE



Then navigate to 'Home' and click on the MENU button to return to the home screen. You should now see the Override message, as shown



The Water and Heating Program Menu

Some notes about setting Water and Heating Programmes

i). There are five possible settings for the Hot Water and a further five settings for the Heating, these are: **OFF**, **1x**, **2x**, **3x** and **ON**.

ii). If the Hot Water programme is set to **OFF**, the hot water will never come on. If the hot water is set to **ON**, the Hot Water will always be on - likewise for the Heating. ie the **BOOST** and **OVERRIDE** buttons will not work when the programme is set to **OFF** or **ON** (see the last few pages for a description of the Boost and Override Buttons).

iii). You might want to use the **OFF** programme, if you go away (but, don't forget the risk of freezing weather!). You might want to use the **ON** programme to test that the Easytherm correctly fires your Heating or Hot Water. (See the next page).

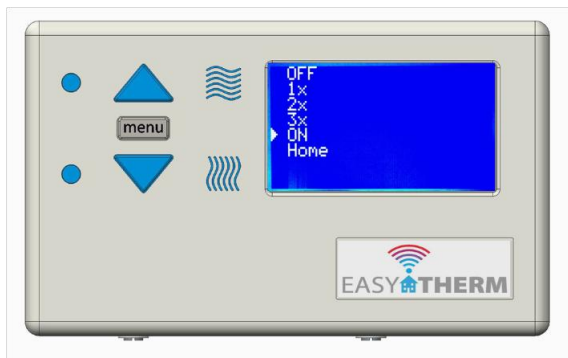
iii). Using the '**1x**' programme will cause the Hot Water or Heating to switch on for the first of the on & off times set for each day, only - the second and third set of on & off times will be ignored. Likewise, using the '**2x**' programme will switch on the Hot Water or Heating for the first and second of the on & off times set for each day - etc. for the '**3x**' programme.

iv). If you want to have the effect of '**3x**' programmes on some days and '**2x**' programmes on other days, you can set 'dummy' on & off times, such as an on time of 12:00, followed by a corresponding off time of 12:00. Eg, with the Heating programme set to '**3x**' and the Heating on & off times set to: ON1 06:30 OFF1 08:00, ON2 12:00 OFF2 12:00, ON3 18:00 OFF3 22:00, the Heating will only come on between 6:30 to 8:00am and 6 to 10pm.

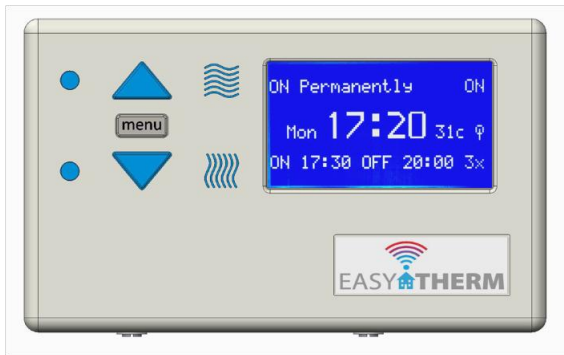
The Water and Heating Program Menu (Continued)

Important Note:- in this example of setting a Program, we have set the Water to be permanently ON. Whilst this is a common scenario, great care needs to be used with either the permanently ON or OFF Programs - e.g. to ensure that the premises do not freeze or that fuel is not inadvertently wasted.

Use the UP and DOWN arrows to navigate to the Program setting that you want and then click on the MENU button to select



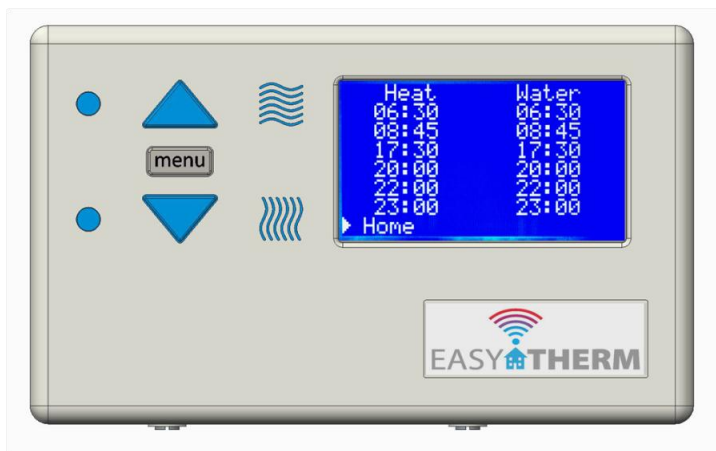
When the Program setting has been selected, the display will automatically return to the Home screen and selected program can be seen on the right hand side of the Water and Heating display lines. Also notice the 'ON Permanently' message.



The Show ON OFF Times menu

This menu item displays all of the ON and OFF times for the Heating and Water for the current day. In this version of the software, the ON and OFF times can only be changed via the App or via the Web Browser log in.

In the example shown below the first Heating on period is from 06:30 until 08:45. Depending on the selected Program (1x, 2x, 3x) The heating then gets switched off until the second period, which is from 17:30 until 20:00. Likewise for the third period, which is from 22:00 until 23:00.

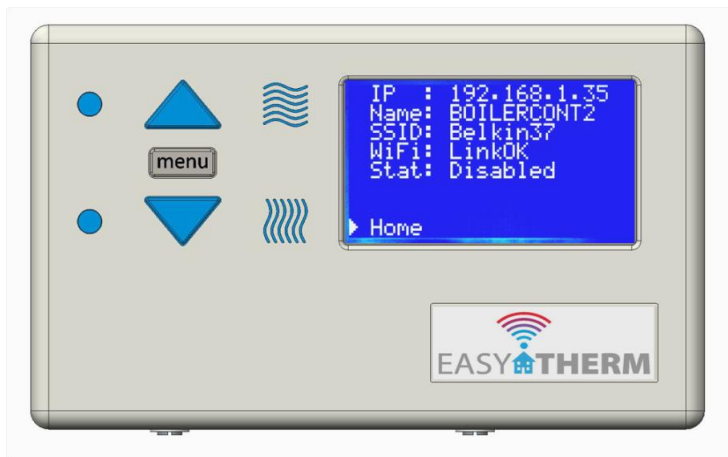


The Show Network Info menu

The Show Network Info screen is helpful for diagnosing and resolving connection problems. Additionally, the IP Address, shown on the top line of the Show Network Info display can be entered into the address bar of an internet browser on a smartphone, pad or pc, connected to the WiFi network, to gain access to the Easytherm web screens.

Meaning of the 'WiFi :.' messages in the 'Show Network Info' screen:-

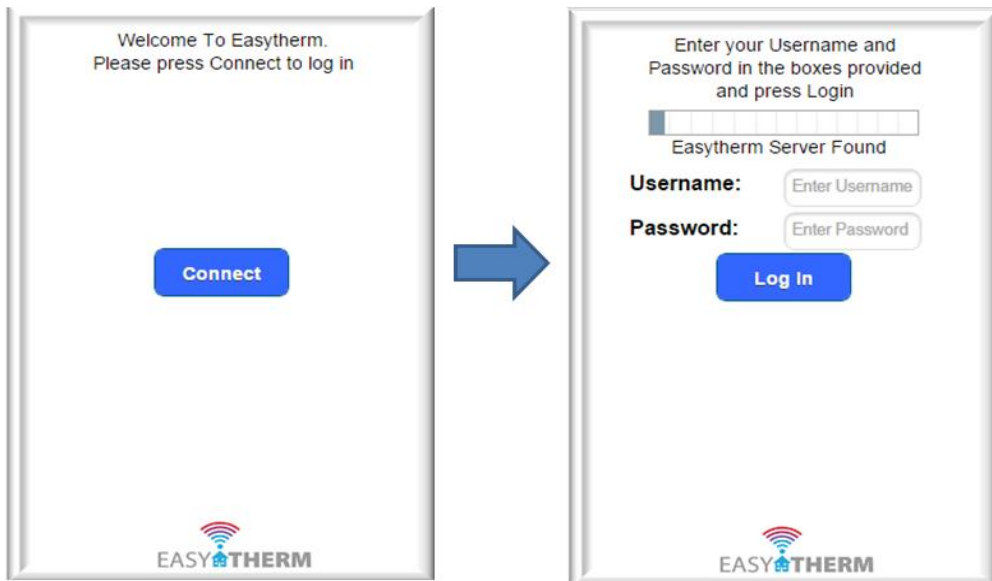
- WFScan** - searching for a wifi router, which usually takes about 35 secs after power on
- NoDHCP** - cannot find a DHCP IP address. Disappears after approx 1 second if all is OK
- No WiFi** - WiFi not found. WFScan will usually re-start in approx 15 seconds
- LinkOK** - WiFi successfully connected. Should see this approx 40secs after power on/reset
- ET Home** - If WiFi OK, should flash every few seconds, indicating can see central server



Note:- The optional external WiFi Thermostat has not been fitted, in this example

5. Using the Easytherm Smartphone App

The Easytherm App should have been installed onto your chosen smartphone, pad or laptop by the Installation Engineer. Please click on the Easytherm App icon to start the App and then click on the 'Connect' button, as shown below. You should now see the progress bar start to move, while the App looks for the Easytherm server. If your internet connection is working, the App should find the Easytherm server within a few seconds and you will then be asked to enter a Username and Password (these should have been written in the back of this manual). Don't worry if the Username and Password boxes don't appear, it just means that App security has been turned off by the installation engineer. Either way, you can now click on the Log In button to complete this step.

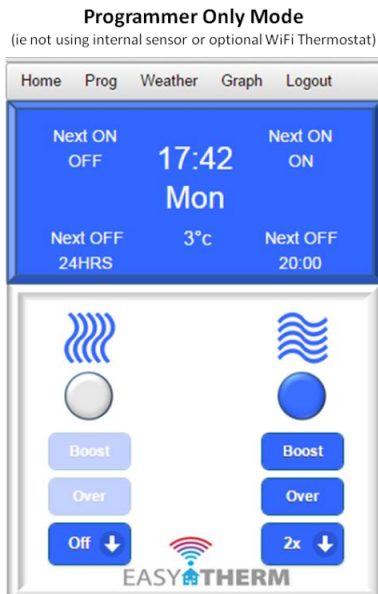
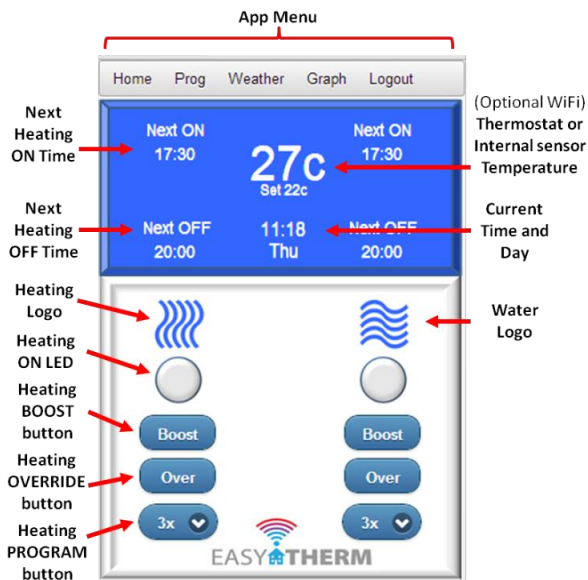


Using the Easytherm Smartphone App (Overview)

The App Home screen should now appear. Take time to familiarise yourself with the diagrams below, so that you understand how the Heating controls are aligned in a column on the left hand side and the Water controls are aligned in a column on the right hand side.

If you haven't already done so, please now familiarise yourself with the BOOST, OVERRIDE and PROGRAM functions, which were explained in the previous section of this manual.

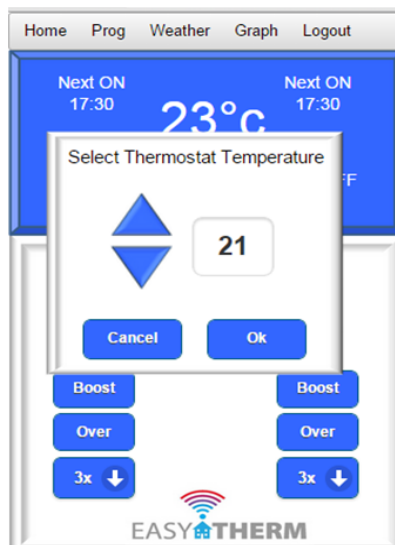
If the Heating or Water PROGRAM is currently set to 1x, 2x, or 3x, you could now try to turn on the Heating or Water by clicking on the OVERRIDE button and observing what happens to the Easytherm. Don't forget to turn off the OVERRIDE, afterwards by clicking on the button again.



Using the Easytherm Smartphone App (Thermostat Set Point)

If you are using the Easytherm Internal Thermostat or have the Optional WiFi Thermostat fitted to your Easytherm, you will see the current temperature shown in extra large letters in the centre of the blue box. Clicking on the Thermostat Current Temperature on the Home screen, will cause the 'Select Thermostat Temperature' form to appear, as shown below. Please use the UP and DOWN arrows on the form to select your chosen room temperature and then press 'OK' to save.

You should now see that the Thermostat Set Point temperature has changed to your new preferred room temperature and the Heating should respond by attempting to regulate the room temperature in which the Thermostat is located.

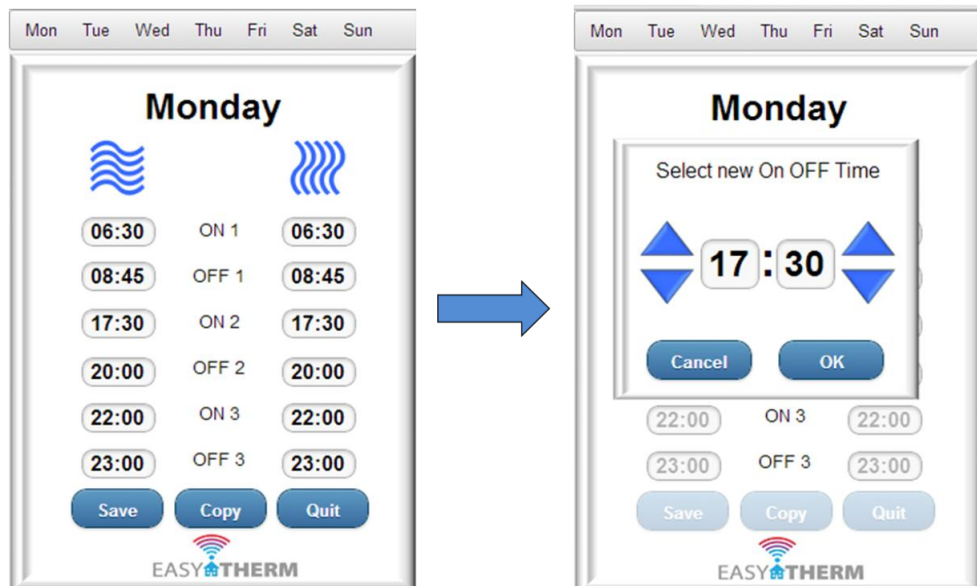


Using the Easytherm Smartphone App (the PROG menu item)

Selecting 'Prog' from the App Menu, will cause the Heating and Water ON and OFF times to be displayed, as shown below. Please note that the App Menu changes to allow you to select the Day of Week, allowing you to select whichever day you wish to view and or modify.

Modifications to ON and OFF times are made by clicking on the individual times, which causes a Time Spinner to be displayed, as shown. Use the UP and DOWN arrows to select a new time, then press OK to return to the ON OFF times screen. Finally, **don't forget to click on 'Save'**, otherwise the new times will not be saved away.

The 'Copy' button can be used to copy all ON OFF times from one day to another.



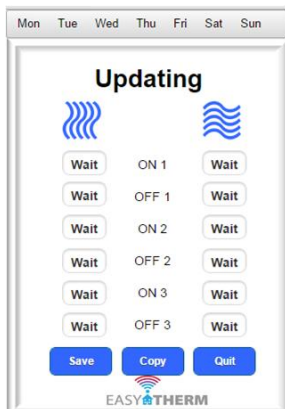
Using the Easytherm Smartphone App (the PROG menu item continued)

NOTES:-

The Easytherm is delivered with default settings for Heating on and off times already set up. However, it is highly likely that you will want to change these, using the procedure shown on the previous page.

The Easytherm has plenty of techniques built in to stop you from entering incorrect times, such as 24:79. It also checks whether the on and off times are in the correct sequence - eg you cannot have an on time which precedes a previous off time. This situation is prevented by the Time Spinner not allowing times to be created in the incorrect sequence.

When you select 'Save' after making changes to a particular day's on-off settings, and you wish to revisit that day in the 'Prog' menu very shortly after you have made the changes, you may see the 'Wait' message displayed as shown below. This will also occur when revisiting any day's settings very shortly after effecting a 'Copy to all days' operation. The 'Wait' operation typically lasts around 45 seconds while your new settings are safely backed up to the Easytherm unit in your home and the central server.



Using the Easytherm Smartphone App (Continued)

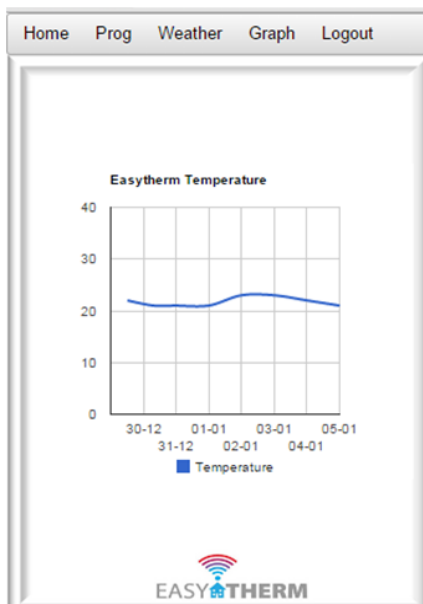
Selecting "Weather" from the App Menu causes the weather forecast for the next 3 days to be displayed. This can be helpful, if you are away from home and are trying to select the best heating settings to protect your home.



Using the Easytherm Smartphone App (Continued)

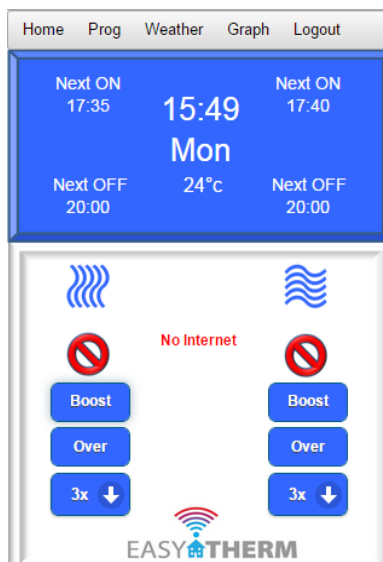
Selecting 'Graph' from the App Menu causes a graph of the temperatures from the Easytherm internal sensor to be displayed. Usually, this graph will show the temperatures measured once per minute for the last 5+ days.

This information can be useful if you are away from home and want to see whether there has been a low temperature problem, or just as a guide to let you know whether you need to turn the heating on, when you are travelling home. Some might even use it to determine if members of their family are using the heating responsibly!



Using the Easytherm Smartphone App (App Messages)

Occasionally, when you are using the App, you may see messages appear on your Smartphone screen, like the message shown below:



Currently, there are 3 messages like this:

- 'No Internet' – means that your Smartphone is not connected to 3G or WiFi
- 'ET Home Timeout' – you are connected but the signal may not be strong enough
- 'Easytherm Timeout' – your Easytherm is not connected to the internet properly

Notes:- If your Easytherm is not connected to the internet at all, or is powered off, it is usually not possible to log into the App. 'ET Home Timeout' messages may also occur if ET Home is not working, or if ET Home has been taken off line for maintenance purposes. Maintenance is generally done during the hours of early morning.

6. Using the Easytherm via a Web Browser

Many Easytherm customers will find that the App and Pushbutton methods for controlling the Easytherm, described in the last 2 sections of this manual, are sufficient for everyday use.

However, there is a another method for accessing and controlling the Easytherm, and that is via a web browser. This can be useful, if you want to access the Easytherm from (eg) a Smart TV or other device which does not support the installation of Apps. Additionally, there are some features which are only available through this method of access, these include:-

- Setting a new Username and Password (the same Username and Password is used by the App and by web browser access)
- Setting a new WiFi SSID and Password for the Easytherm (eg you may need to do this if you change your router WiFi settings or change to a new router)
- Setting the correct time on the Easytherm (Note:- this should not normally be required, as the Easytherm gets its time from the ET Home central server. This feature is provided for installations where there is no internet connection)

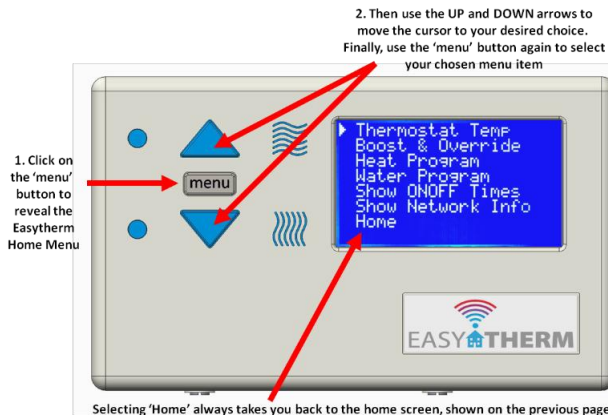
Use the procedure described in the next few pages to access the Easytherm via a Web Browser.

You might also want to take a quick look at:- APPENDIX 3. - Notes on Browser Compatibility when using web browser access at the back of this manual.

Using the Easytherm via a Web Browser (Continued)

1. Check that you can see the WiFi Found Icon on the Easytherm LCD display, as shown in the diagram on the first page of section 4 of this manual,
2. The next step is to find the IP Address of the Easytherm. so that we can re - connect to the Easytherm via a browser.

3. Press the grey 'menu' button on the Easytherm



4. Use the UP and DOWN arrow keys to navigate to 'Show Network Info'. Then copy down the IP address (top row of display)



Using the Easytherm via a Web Browser (Continued)

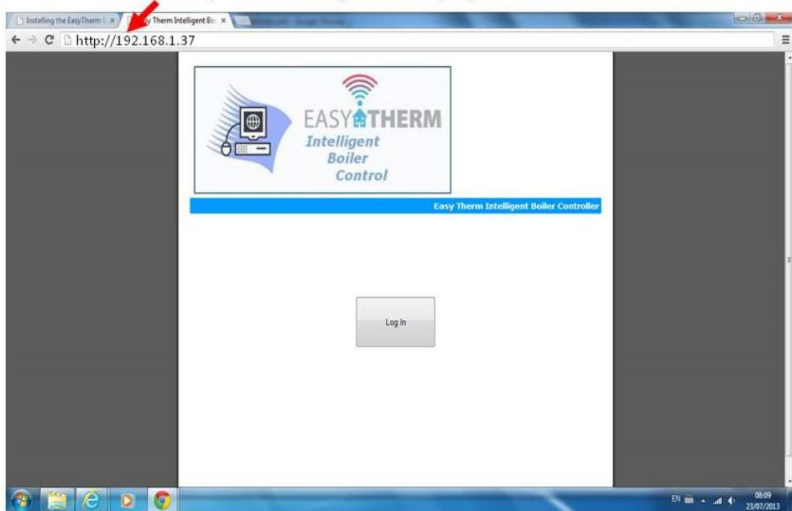
5. Open an Internet Browser on your chosen device (ie smartphone, pad or pc) and enter the IP Address into the address bar, as shown below, using the form **http://(ip address)/**

So, for instance, the IP Address 192.168.1.35 needs to be entered as **http://192.168.1.35/**

6. You should see the Log In screen appear after a few seconds. Now press the Log In button to gain access to the Easytherm Web Status screen.

Note:- The Easytherm does not ask for a Username and Password at this point, because this display can only be viewed from within your home network. Later on, when you want to change important items, such as the WiFi SSID and Password settings, you will be asked for a Password.

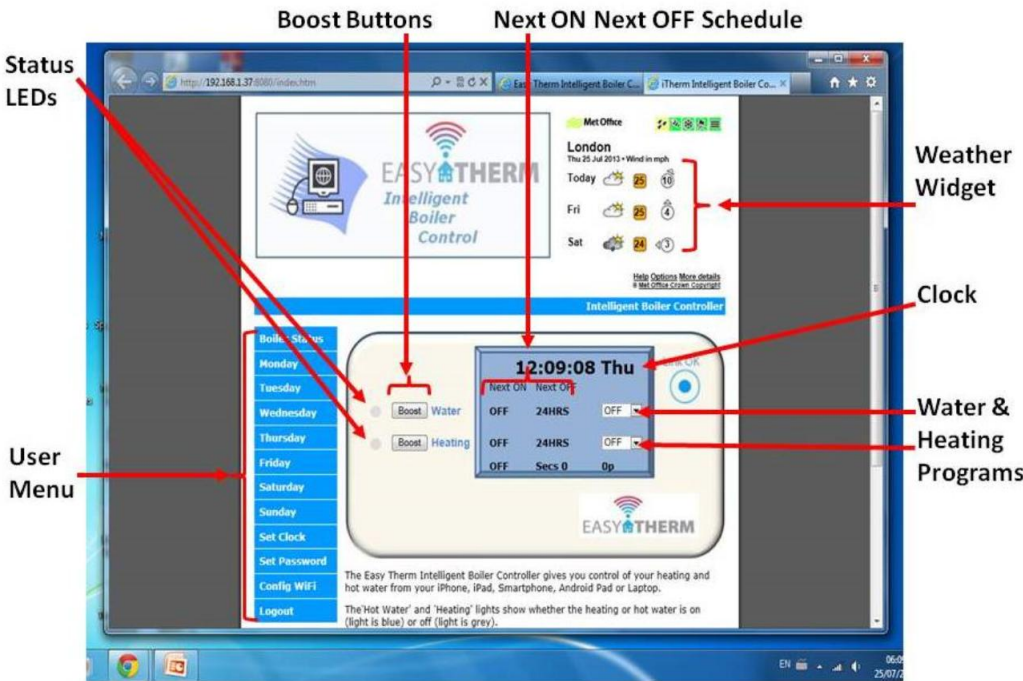
Note: IP Address copied from Easytherm display and entered into browser



Using the Easytherm via a Web Browser (Continued)

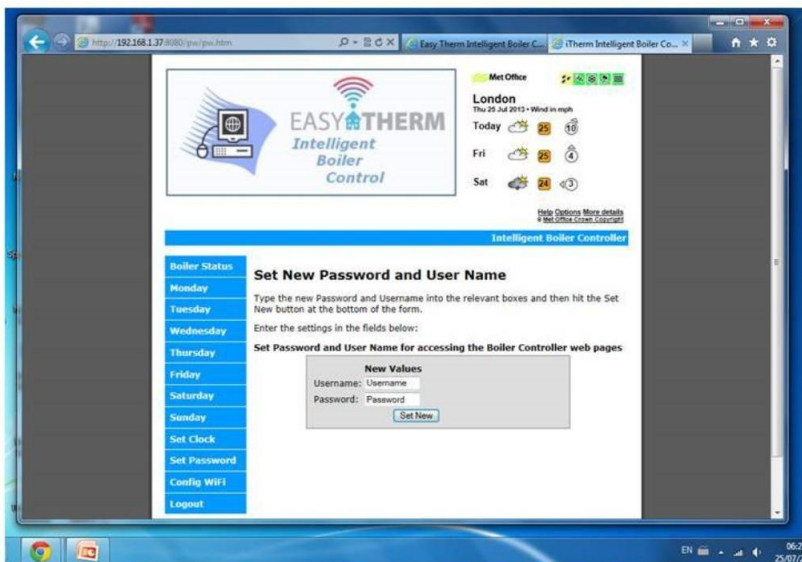
The Easytherm Web Status Screen

If you have successfully logged in, you should now see the Easytherm **Status Screen** displayed, as shown below. Take some time to familiarise yourself with this picture, as we will be referring to the named parts of the Status Screen a lot.



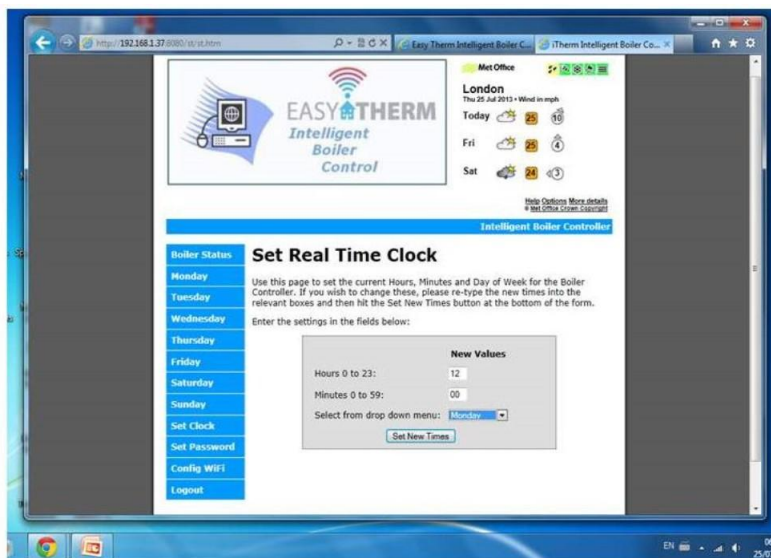
Changing your Easytherm Web Username and Password

You may want to set your Easytherm to use a Password and Username that will prevent other people from logging in and changing your heating settings! First of all, select **'Set Password'** from the **User Menu** and log in using the Username and Password written in the back of this manual. When you see the screen below, type over the existing User Name (Username) and Password (Password) with your own chosen Username and Password, before pressing the 'Set New' button, as shown in the example, below. Please make sure that you **note down your new Username and Password in the back of this manual**, because the only way that you can recover, if you lose them, is to do a Factory Reset of the Easytherm and this will require your installation engineer to visit again!



Setting the correct Time and Day of Week on your Easytherm

The Easytherm has an internal clock and software which allows the Easytherm to continue to operate your Heating and Hot Water, even if your Internet Connection has failed. Normally, the Easytherm checks this clock against the Easytherm Server (ET Home) once a day and corrects the time and day of week, if necessary, including making adjustment for seasons. However, if you do not have a good internet connection, it is a good idea to periodically check that your Easytherm clock is set to the correct time and 'Day of Week'. If it is not, select **'Set Clock'** from the Easytherm **User Menu** and log in using the Username and Password written in the back of this manual. Then enter the correct Hours and Minutes, using the 24 Hour clock format, eg 09:25 for 9.25 am. Then use the drop down box to set the correct Day of Week. Finally, select the 'Set New Time' button to save the time. See example below. Once the time has been saved, the correct time should be shown on the **Status Screen**.



Setting ON and OFF times for your Hot Water and Heating

By selecting any of the 7 days of the week from the Easytherm User Menu, you can see and, if necessary, modify the times that your Hot Water and Heating will switch on and off. Start by selecting **'Monday'** from the **User Menu** and you will see the screen below.

The Easytherm Boiler Controller allows you to have up to 3 periods per day during which the Heating can be on and 3 periods per day during which the Hot Water can be on. The 3 on periods for the Heating can be seen in the left hand column of the table and the 3 on periods for the Hot Water can be seen in the right hand column.



EASYTHERM

Intelligent
Boiler
Control

Met Office

London
Fri 01 Nov 2013 • Wind in mph

Tonight   

Sat   

Sun   

[Help](#) [Options](#) [More details](#)
[What else does Control](#)

Heating and Hot Water On and Off Times

for **MONDAY**. To change, re-type the new times into the table below and press the Set New Times button at the bottom of the page.

Copy ON OFF times from: Select Day ▾		
	Heating	Hot Water
Monday On 1:	06:30	06:30
Monday Off 1:	08:45	08:45
Monday On 2:	17:30	17:30
Monday Off 2:	20:00	20:00
Monday On 3:	22:00	22:00
Monday Off 3:	23:00	23:00

Set New Times
Copy

Copy Monday times to all days of the week

Setting ON and OFF times for your Hot Water and Heating - (Continued)

The Easytherm is delivered with default settings for Heating on and off times already set up. However, it is highly likely that you will want to change these settings, which can be done by clicking on any of the on and off times in the table and entering a new time in the 24 hour clock format, not forgetting to place a zero in front, if necessary :- eg 07:45 for 7:45 am and 19:45 for 7:45 pm.

The Easytherm has plenty of checking built in to stop you from entering incorrect times, such as 24:79. It also checks whether the on and off times are in the correct sequence - eg you cannot have an on time which precedes a previous off time. If you see a warning message, click 'OK' and you will find that the incorrectly entered time has been replaced by the word 'ERROR' - just replace the word 'ERROR' with the correct time. When you have finished, press the '**Set New Times**' button.

and Hot Water On and Off Times

times for **MONDAY**. To change, re-type the new times into the table
press the Set New Times button at the bottom of the page.

The screenshot shows the 'Heating' section of the Easytherm interface. A table lists times for Monday: On 1 (06:30), Off 1 (34:45), On 2 (17:30), Off 2 (20:00), On 3 (22:00), and Off 3 (23:00). The 'Off 1' time '34:45' is circled in red. A modal window titled 'Message from webpage' is displayed over the table, containing a yellow warning icon and the text: 'Please enter hours in range 00 to 23. Invalid value: 34 Please overtype ERROR with correct time FROM HEADER'. An 'OK' button is at the bottom right of the modal. A red arrow points from the text 'Click OK' below the screenshot to the 'OK' button.

Click OK

g and Hot Water On and Off Times

F times for **MONDAY**. To change, re-type the new times into the table
press the Set New Times button at the bottom of the page.

The screenshot shows the 'Heating' and 'Hot Water' sections of the Easytherm interface. The 'Heating' table lists times for Monday: On 1 (06:30), Off 1 (ERROR), On 2 (17:30), Off 2 (20:00), On 3 (22:00), and Off 3 (23:00). The 'Off 1' time 'ERROR' is circled in red. A red arrow points from the text 'Then overtype ERROR with correct time' below the screenshot to the 'ERROR' text in the table. The 'Set New Times' button is at the bottom of the table.

Then overtype ERROR with correct time

Setting ON and OFF times for your Hot Water and Heating - (Continued)

Once you have set your favored on & off times (eg) for Monday, it is possible to easily copy these times to any other day of the week. Select the day that you wish to set the on & off times for, from the **'User Menu'** on the left hand side of the **Status Screen** and then use the **'Copy ON OFF times from:'** drop down box, as shown in the example below and the new times will be copied across. Using this method, it is very easy to set up a template for (eg) Monday to Friday on and off times. If necessary, these can then be fine tuned for each specific day. There is also a 'Copy to all days of the week' button on the Monday screen, only.

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192.168.1.34/th/th.htm

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Met Office

London

Fri 01 Nov 2013 • Wind in mph

Tonight  18 9

Sat  18 11

Sun  18 17

[Help](#) [Options](#) [More details](#)
[Met Office Access Copyright](#)

Intelligent Boiler Controller

Boiler Status

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

Set Clock

Web Password

Config WiFi

Dynamic DNS

Heating and Hot Water On and Off Times

for THURSDAY. To change, re-type the new times into the table below and press the Set New Times button at the bottom of the page.

Copy ON OFF times from:

Monday

Monday

Tuesday

Wednesday

Select Day

Friday

Saturday

Sunday

Heating

Thursday On 1: 06:30

Thursday Off 1: 08:45

Thursday On 2: 17:30

Thursday Off 2: 20:00

Thursday On 3: 22:00

Thursday Off 3: 23:00

22:00

23:00

Set New Times

Setting the Hot Water and Heating Programmes

The final stage in getting the Boiler Controller ready for controlling your Hot Water and Heating is to set how many times you wish the Hot Water or Heating to come on each day. Remember that you have already set up 3 sets of on & off times for each of the days of the week (see last 2 pages). You now need to tell the Easytherm how many of these on & off times you actually want to use. For instance, you might want to set the Water to come on twice a day and the Heating three times a day. This is done using the 'Water and Heating Programmes' drop down boxes. See below.



Testing

Now that you have set the Easytherm clock, password, username, Heating and Hot Water on and off times and Heating and Hot Water programmes, keep a close eye on the Easytherm LEDs and your boiler for the first 24 hour cycle to ensure that all is well.

Check that the Heating or Hot Water blue Status LEDs are lit on the Easytherm Boiler Controller during the expected on times and listen to the boiler for a good few minutes and you should eventually hear the boiler 'fire'. Many modern boiler installations take a few minutes to 'fire', because valves have to open and various processes have to take place in the boiler, first. The boiler will then continue to fire in 'bursts' throughout the scheduled on period as the temperature exceeds the thermostat set point and then cooling causes the thermostat to demand heat again.

Note; you should check that the room thermostat or cylinder thermostat is set at a level where the boiler will fire. Eg, if the ambient temperature is 25 degrees centigrade and your room thermostat is set to 22 degrees centigrade, the boiler will not fire the Heating, even if the Easytherm Heating LED is lit. Likewise, if the water in your hot water tank is already at, or above the temperature set on the tank thermostat, the boiler will not fire.

APPENDIX 1 - Reducing your fuel bills and saving energy with the Easytherm

Two great ways to achieve cost and energy savings are to; i). ensure that your heating and hot water are only used when necessary and ii). are set to the correct temperatures.

Trials have demonstrated good savings from using the Easytherm, because;

- compared to a conventional Boiler Programmer, the App or web interface of Easytherm makes it much easier to set boiler on and off times. This promotes regular fine tuning of heating and hot water times and the variation of these times as and when needed.
- the granularity of on and off times in the Easytherm is 1 minute and different times can be set for each day of the week to suit varying work and rest patterns. Doing this with a conventional 7 Day Programmer is either impossible, or overly complicated.
- remote access to the Easytherm allows Heating and Water programmes to be switched off when changes of plan occur when away from home. For instance, when you decide to stay with friends for the night, or if you forget to switch off central heating and hot water before leaving on holiday.
- the Boost and Override functions promote the use of a conservative heating schedule, which can be 'Boosted' or 'Overridden' as needed from the comfort of the living room or bedroom.
- the customer can easily switch between energy suppliers, as there is no 'tie in' to any form of central service for web site access or energy supply.

APPENDIX 2 - Troubleshooting

If your Easytherm appears to have stopped controlling your boiler

Check that the Easytherm display is lit and that the clock is working as expected. This is an important test, because the clock is operated via the Easytherm software - ie if the clock has stopped, the software has stopped working. If this has happened, Reset the Easytherm using the little reset button on the bottom of the Easytherm box..

Try switching the Easytherm programme to **ON** for first the Heating and then the Hot Water (via the 'Menu' button on the front of the Easytherm box – eg Menu/ Heat Program/On). Once you have set either the Hot Water or Heating programme to **ON**, check that the Heating or Hot Water blue Status LED is lit on the Easytherm and then listen to the boiler for a few minutes and you should eventually hear the boiler 'fire'.

Note: you should check that the room thermostat or cylinder thermostat is set at a level where the boiler will fire. If you do not hear the boiler fire after 10 - 15 minutes and you are sure that the thermostat is set at a level where the Heating or Hot Water should fire and the relevant Easytherm LED is on, you might want to check your boiler status panel to see if your boiler is displaying any fault codes, before calling your installation company for help.

If your App has stopped working

Check that you have internet access to your smartphone, laptop. etc by opening a browser and trying to browse to a site like 'www.bbc.co.uk'. Note:-due to a thing called 'cacheing', the Google site often appears, even if you are not connected to the internet – so this is not a good indicator of internet connectivity.

If everything is ok on your Smartphone, Laptop etc – check that the little flashing lollipop WiFi Found Icon is showing on the right hand side of the Easytherm LCD (display) – see pictures in section 4 of this manual, to see what this looks like. If the lollipop is not flashing, check that

your home WiFi router is working and then use a Smartphone or Laptop to check that you can get a WiFi signal by the Easytherm. Sometimes, re-positioning, or re-starting your router can solve this problem.

If you are comfortable with Wireless Network Technology, use the 'Show Network Info' menu on the Easytherm box and described earlier in this manual, to help you diagnose and identify any issues.

Cannot See Boiler Controller Login Page inside Browser

If nothing appears when you enter a correctly formed Easytherm web page address (for example: 'http://192.168.1.4/') into your browser, check the following:

- Check that you are using the correct IP address. This can be found by looking at the Easytherm 'Show Network Info' screen.

- If the IP address '169.254.1.1' or the message 'NoDHCP' is shown on the Easytherm 'Show Network Info' screen, this would suggest that the Easytherm cannot connect to your home router, because:

- i). Perhaps the WiFi router is out of range, not working, or the WiFi has not been configured properly on the Easytherm? OR

- ii). There may be an issue with your router DHCP setup (eg DHCP may be off).

- If the 'Show Network Info' screen 'WiFi .' message is showing 'LinkOK' and the Easytherm display looks like it has a sensible address (ie not 169.254.1.1), then the link between your router and the Easytherm is probably working and you should check the connection between your router and pc, laptop or whatever device you are using.

APPENDIX 3. - Notes on Browser Compatibility when using web browser access and the App

Examples of browsers that work well with Easytherm are:

- **iPhone** - App tested and works on the iPhone 4 and iPhone 5 using the Safari browser. Should be OK for iPhone 6. Where possible, IOS Version 8.1.1 (or above) should be used. Versions 6 and 7 of IOS should also be OK, but versions 8.0.x and version 5.x.x must not be used.

- **Android** - App works on Android 4.1 and above with Google Chrome. Probably OK for Android 4. Google Chrome browser version 31 or above should be used as the browser. The 'standard' Android browser must not be used. Most Android phones have the Google Chrome browser already installed, as well as the standard Android Browser.

- **Windows Phone** – yet to be tested, but the App should work using the Internet Explorer browser on the more recent Windows Phones

- **Laptops** - App works well on Windows 7 with Google Chrome 36 and probably works on Chrome 31 onwards. Although this has yet to be tested - the App should work fine on recent Mac laptops, using the Safari browser.

The Easytherm Boiler Controller makes use of Javascript - you may need to turn on support for Javascript in your browser if some things are not working. If you use Google to search "How do I turn on Javascript in my Browser", you will find lots of useful guides for the various browsers. However, it is worth noting that most browsers will already have Javascript turned on.

APPENDIX 4. Your Web Password, Username and Internet URL

Your Easytherm Web Access **Username:**

Your Easytherm Web Access **Password:**

Your Easytherm Web Access **URL:**

ET Home API Key:-

Installation Company Telephone Number:-

Notes:- Your installer should have written important information relating to your installation into the boxes shown above and they should explain each item, before they leave. Please make sure that you write any changes that you make onto this page. Remember that you may not be able to access the Easytherm if you lose the passwords or usernames.

Appendix 5. Outline Specifications (A full specification is available on request)

Power Supply:- Auto Ranging Power supply, 100-240VAC, 50 – 60 Hz

Power Consumption:- 2W

Operating temperature range:- 5 degrees C to 40 degrees C

Storage temperature range:- minus 10 degrees C to 50 degrees C

Maximum Humidity:- 85% RH (non-condensing) @ < 40 degrees C

Relays:- 2 x SPDT, 3 Amps Max at 230 V AC

Programmer:- 7 Day Programmer with 3 individual, configurable ON OFF times for Hot Water and Heating each day

Time Keeping Accuracy:- Less than 2 minutes drift from set time per month

Battery Backup:- All settings are either held in NVRam or Battery Backed Ram. The battery will retain data for at least 7 days, unless multiple, repeated power failures have occurred.

WiFi Standards:- 802.11g and 802.11b

Backplate:- Designed to easily replace the majority of existing boiler programmers, by retaining the same fixing centres and dimensions.

Enclosure:- Flame retardant plastic enclosure

Approvals:- CE EN60950. Easytherm 1 is also WEEE and RoHS Compliant